ULSS 009091-15A

USER'S LOGISTICS SUPPORT SUMMARY

WATER QUALITY ANALYSIS SET, PURIFICATION (WQAS-P)

NSN 6630-01-477-2395

MARINE CORPS SYSTEMS COMMAND
QUANTICO, VA 22134-5010

April 2004
PCN 132 09241 00

DEPARTMENT OF THE NAVY
Headquarters, U.S. Marine Corps
Washington, DC 20380-0001

30 April 2004

1. This User's Logistics Support Summary (ULSS), authenticated for Marine Corps use and effective upon receipt, advises the Marine Operating Forces and other selected commands of the plan to field and logistically support the Water Quality Analysis Set, Purification (WQAS-P), NSN 6630-01-477-2395.

2. Submit notice of discrepancies or suggested changes to this ULSS to the Program Office at the following address: Commanding General, MARCORSYSCOM Attn: PMM-152, 2200 Lester Street, Quantico, Virginia 22134-6050.

3. This ULSS supersedes ULSS-009091-15 dated 31 July 1995.

4. This ULSS is applicable to Marine Corps Reserve.

BY DIRECTION OF THE COMMANDING GENERAL, MARINE CORPS SYSTEMS COMMAND

OFFICIAL:

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DISTRIBUTION: PCN 132 09241 00

USER'S LOGISTICS SUPPORT SUMMARY (ULSS)
FOR THE
WATER QUALITY ANALYSIS SET, PURIFICATION (WQAS-P)

1. Introduction. This version of the Water Quality Analysis Set, Purification (WQAS-P) is the replacement set for the currently fielded WQAS-P. The WQAS-P provides Operational Forces with the ability to test and assess the quality of field raw water sources for treatment with water purification systems in expeditionary environments. The set is also used to assess the water quality of the product water at storage and distribution points. The fielding of a new WQAS-P provides an increase in efficiency over the existing system, and reduces the amount of components required for conducting water analysis (weight reduction, cost of end item).

a. Source of Requirement. Required Operational Capability No. LOG 1.05, Family of Water Supply Support Equipment.

b. Points of Contact

Title	Activity	Telephone
Team Lead	MARCORSYSCOM, PMM-152 Quantico, VA 22134-5010	(703) 432-3725 DSN 378-3725
Project Officer	MARCORSYSCOM, PMM-152 Quantico, VA 22134-5010	(703) 432-3737 DSN 378-3737
Lead Logistician	MARCORSYSCOM PMM-152 Quantico, VA 22134-5010	(703) 432-3758 DSN 378-3758
Equipment Specialist	MARCORSYSCOM PMM-152 Albany, GA 31704-0302	(229) 639-6984 DSN 567-6984
Vendor	WATEC, INCORPORATED 10624 Southwest 52nd Avenue Suite 100 Gainesville, FL 32608	(352) 375-1037

c. System Description. The WQAS-P is a one-person portable suitcase set containing equipment for testing and monitoring water quality. The set is self-contained in a watertight, airtight, dustproof, crush resistant case containing Commercial-Off-The-Shelf components capable of measuring the temperature, chlorine, pH, turbidity, and total dissolved solids (TDS), concentration of the water being tested and monitored. The case is designed to accept the Water Testing Kit, Chemical Agents M272, Table Of Authorized Materiel Control Number (TAMCN) C2375.

WQAS-P Components:

ITEM NO.	ITEM NAME	ITEM NO.	ITEM NAME
1	Chorine Photometer	12	pH Buffer Standard Pouches, pH 7.00
2	Water Testing Kit, Chemical Agents M272*	13	Electrode Storage Solution for Ultrameter, 1pt
3	1413 uS Conductivity Standard Pouches	14	Beaker, Breaker Resistant
4	447 uS Conductivity Standard Pouches	15	Cuvette Cleaning Solution, 230 ml
5	Turbidity Meter	16	Demineralizer Bottle
6	Turbidity Measurement Cuvettes (3 ea.)	17	Cleaning Tissue
7	Chlorine Test Strips	18	Reversible Flat/Phillips Screwdriver
8	0 FTU Calibration Solution, 30ml (2 ea.)	19	Ballpoint Pens (2 ea.)
9	10 FTU Calibration Solution, 30ml (2 ea.)	20	AA Batteries (4 ea.)
10	Ultrameter	21	9-Volt Batteries (2 ea.)
11	15,000 uS Conductivity Standard Pouches		

*This item is not issued with the WQAS-P. Units are to retain their current kits for use with the WQAS-P.

Operational Characteristics

TEST CAPABILITIES	RANGE
Chlorine, Free (meter)	0.000 to 6.00 ppm ± 2%
Chlorine, Free (strip)	0 to 10 ppm
Chlorine, Total (strip)	0 to 10 ppm
Conductivity (meter)	0 to 9,999 uS ± 1% 10-200 mS ± 1%
Oxidation Reduction Potential	±999mV ± 1mV PH 0 to 14 ± .01

TEST CAPABILITIES	RANGE
Resistivity (meter)	10 KU to 30 MU ± 1%
Temperature	0 to 71°C ± 0.1°C 32 to 160°F ± 0.1°C
Total Dissolved Solids	0 to 9,999 ppm ± 1% 10 to 200 ppt ± 1%
Turbidity (meter)	0.00 to 50.00 FTU ± 5% 50 to 1,000 FTU ± 10%

e. Replaced Weapons Systems and Equipment. The Water Quality Analysis Set, Purification (WQAS-P), NSN 6630-01-477-2395 replaces the existing WQAS-P; NSN 6630-01-365-5588 but retains the same TAMCN B26307B. The associated component, Water Testing Kit, Chemical Agents M272, TAMCN C2375, NSN 6665-01-134-0885 is to be retained for use with the WQAS-P.

2. Administrative Information

a. Nomenclature. Water Quality Analysis Set, Purification (WQAS-P)

b. Table of Authorized Materiel Control Number (TAMCN). B26307B

c. Stores Account Code (SAC). 3

d. National Stock Number (NSN). 6630-01-477-2395

e. Item Designator (ID). 09241D

f. Unit of Issue (UI). Each

g. Unit Cost (UC). $3,100.00

h. Support Costs. $150.00

i. Physical Characteristics

	Operational Configuration	Storage/Shipping Configuration
Length	24.25 in.	24.25 in.
Width	19.50 in.	19.50 in.
Height	8.75 in.	8.75 in.
Square	3.96 sq ft	3.96 sq ft
Cube	2.39 cu ft	2.39 cu ft
Weight	28 lbs	28 lbs
Stowage	N/A	N/A

j. Petroleum, Oil and Lubricants (POL). N/A

k. Equipment Density. Normal

l. Resource Reporting. No

m. Power Requirements. The WQAS-P requires nonrechargeable batteries to power the Chlorine Photometer, Turbidity Meter, and Ultrameter, which are supplied with the set.

ITEM	BATTERY TYPE/QTY
Chorine Photometer	9-Volt battery (1 ea.)
Turbidity Meter	1.5-Volt AA batteries (4 ea.)
Ultrameter	9-Volt battery (1 ea.)

n. Associated Weapons System and Equipment. There are no weapon systems or equipment associated with the WQAS-P. The Family of Water Supply Support Equipment (WSSE) includes all water assets associated with storage and distribution of potable water. The WQAS-P is used to test and assess the quality of field raw water sources for treatment with water purification systems in expeditionary environments.

3. Fielding Methodology

a. General Fielding Plan. The WQAS-P will be fielded beginning in the 3rd Quarter, FY 2004. It will be shipped directly from Marine Corps Logistics Base, Albany (MCLBA) to the owning units.

b. Method of Fielding. The WQAS-P will be force-fed simultaneously to the Operating Forces listed in Appendix A of this document.

c. Fielding Responsibilities. Units will place the WQAS-P on administrative deadline until the Materiel Fielding Team (MFT) arrives and conducts a joint inventory and familiarization training.

4. Logistics Support

a. Maintenance Support

(1) Maintenance Concept. The WQAS-P will be operated and maintained by the MOS 1171, Hygiene Equipment Operator at the organizational level. The MOS 1171, Hygiene Equipment Operator will perform Preventative Maintenance Checks and Services (PMCS) as well as operator and organizational level troubleshooting and maintenance procedures on the WQAS-P components.

(a) Organizational Maintenance. Maintenance consists of inspecting the WQAS-P prior to operational setup, troubleshooting, performing PMCS, cleaning, and inspection after each use. If equipment is inoperable after completing all troubleshooting steps listed in the TM 10-6630-

222-12&P, and if still under warranty, the item should be returned to vendor for repair or replacement. No maintenance is required or authorized beyond the organizational level.

(b) Intermediate Maintenance. There are no requirements for intermediate maintenance. WQAS-P components are disposed of at the organizational level and replacements are requisitioned.

(c) Depot Maintenance. There are no requirements for depot maintenance. WQAS-P components are disposed of at the organizational level and replacements are requisitioned.

(2) Designated Support Depots. N/A

(3) Calibration Requirements. The WQAS-P does not require calibration by an official calibration facility; however, the WQAS-P technical manual (TM 10-6630-222-12&P) contains calibration requirements. The calibration requirements contained in the TM 10-6630-222-12&P are only checks and adjustments to be performed by the operator before each use of the Turbidity Meter and Ultrameter.

b. Contractor Support Requirement

(1) Interim Contractor Support (ICS). None required.

(2) Contractor Logistics Support (CLS). None required.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. There are no new or additional personnel requirements. Existing MOS 1171, Hygiene Equipment Operator personnel will operate and maintain the WQAS-P.

(2) Training Requirements. Operator and maintenance familiarization instructions for MOS 1171, Hygiene Equipment will be provided by the New Equipment Training Team (NETT) during fielding. New Equipment Training will be conducted by MCSC utilizing the "Train the trainer" concept. Follow-on training material will be left at the gaining units to conduct sustainment training.

(a) Initial Training. Initial training will be conducted by the New Equipment Training Team (NETT) dates and times (TBD). The Marine Corps Engineer School (MCES), Camp Lejeune, North Carolina have updated the WQAS-P training materials and will implement training for personnel attending training at MCES.

(b) Schools. WQAS-P instructions will be incorporated into the appropriate Basic and Journeymen Hygiene Equipment Operator courses, as well as the Utilities Chief and Officers courses at MCES, Camp Lejeune, North Carolina.

(c) Unit Training. Units are responsible for conducting sustainment training using the WQAS-P, technical manuals, and instructional materials provided by the NETT. Training issues and requests for additional instructional materials shall be directed to Commanding Officer, Utilities Instructional Company, MCES, Camp Lejeune, North Carolina.

(d) Training Quotas. Each unit is requested to ensure MOS 1171; Hygiene Equipment Operator personnel are available to receive the New Equipment Training.

(3) Training Support Items. Other than the WQAS-P, the receiving units require no training support items or training devices.

d. Supply Support. Initial Issue Provisioning projects and documentation are not applicable. The WQAS-P is supportable through normal supply chain management. The Army has fielded and established the supply support and replenishment system for the WQAS-P. The Marine Corps is registered as a user of the Army's assigned NSNs.

e. Support Equipment. The WQAS-P does not require support equipment.

(1) Special Tools. N/A

(2) Common Tools. N/A

(3) Special Purpose Test Equipment. N/A

(4) General Purpose Test Equipment. N/A

(5) Application Program Sets and Test Program Sets. N/A

(6) Other Support Equipment. N/A

f. Technical Publications. Technical manuals are stocked, distributed, and maintained via the MCLBA web site. Manuals required for operation, maintenance, and repair parts are over packed with each WQAS-P. The WQAS-P new technical manual number and PCN information is:

TM NUMBER	TM TITLE	PCN
TM 10-6630-222-12&P	WATER QUALITY ANALYSIS SET: PURIFICATION	350 084845 00
ULSS 009091-15A	ULSS FOR THE WATER QUALITY ANALYSIS SET-PURIFICATION	132 092410 00

Existing technical manuals and PCN information to be phased out:

TM NUMBER	TM TITLE	PCN
TM 09241B-12&P	WATER QUALITY ANALYSIS SET-1	184 092410 00
TM 09241B-12&P\C1	WATER QUALITY ANALYSIS SET-1 CHANGE 1	184 092410 01
ULSS 009091-15	ULSS FOR THE WATER QUALITY ANALYSIS SET-PURIFICATION	132 092410 00

g. Computer Resources Support. This equipment does not require any computer resource support.

h. Facilities. Existing facilities satisfy the requirement for this item.

(1) Existing Facilities. Existing facilities are sufficient for storage of the WQAS-P.

(2) New Facilities. N/A

(3) Interim Facilities. N/A

i. Packing, Handling, Storage, and Transportation (PHS&T). Special packing, packaging materials, or special containers are not required for the WQAS-P. There are no requirements for repackaging for shipment and return for repair.

(1) Packaging. Packing and preservation will be in accordance with best commercial practices and TM 10-6630-222-12&P, which will ensure acceptance by the carrier.

(a) General. The WQAS-P is shipped and received in a cardboard container that is not required to be maintained for future storage or shipment of the WQAS-P.

(b) From the Manufacturer. The WQAS-P sets scheduled for shipment from the manufacturer shall be preserved and packaged in accordance with the best commercial practices of ASTM D 3951-98 ensuring equipment delivery free from damage. Marking for shipment and storage shall be in accordance with MIL-STD-129.

(c) From the Gaining Command. In the event that a WQAS-P set is required to be returned to stock, the using unit shall be responsible for preservation and packaging of the item(s) in accordance with current policy and procedures of MCO 4030.36, Marine Corps Packing Manual, as directed below:

1 Return to Stock. Items to be returned for stock shall be preserved and packaged to level A requirements.

2 Marking. Marking for shipment and storage shall be in accordance with MIL-STD-129.

(2) Handling. No handling equipment is required to load the equipment as a single unit aboard transportation and to position in the field. Properly preserved and packaged there is no special handling equipment required for the WQAS-P. Handling shall be in accordance with the policy and procedures of MCO 4450.14, Joint Service Manual for Storage and Materials Handling.

(3) Storage. Properly preserved and packaged there are no special storage requirements for the WQAS-P other than protection from damage and the elements. The WQAS-P must be

protected from temperatures below 32°F (0°C). The chemicals in the kit can be rendered useless and equipment damaged if allowed to freeze. See TM 10-6630-246-12&P for long and short-term storage preparation instructions. Storage shall be in accordance with the policy and procedures of MCO 4450.14, Joint Service Manual for Storage and Materials Handling.

(4) Transportation. Properly preserved and packaged the WQAS-P does not require special transportation. The valve on the front of the case must be opened before air flight and closed after air flight. The WQAS-P is capable of being transported by all means available to the U.S. Marine Corps (i.e. Ground (Military and Commercial), Air (Military and Commercial), Rail and Marine (Military and Commercial). Transportation control shall be in accordance with MCO P4600.7 (Marine Corps Transportation Manual) and MCO P4600.14 (Defense Traffic Management Regulation).

j. Transportability and Naval Integration. The WQAS-P is configured to allow easy transportability by truck, train, ship, or air. No special Naval Integration issues have been identified for the WQAS-P.

k. Warranties. WATEC, Inc provides a warranty for the WQAS-P components. The Ultrameter and Photometer are warranted for one year and the Turbidimeter is warranted for two years. The warranty starts from the date of the gaining commands acceptance. The warranty is limited to repair or replacement due to defects in material and workmanship. The units will coordinate with the Warranty Coordinators for shipment of failed equipment for warranty service and repairs. All warranty issues will be coordinated with the respective MEF Warranty Coordinator. The following chart provides information for Warranty Coordinators.

WARRANTY COORDINATOR	NAME	LOCATION	PHONE	E-MAIL
I-MEF	Mr. Carl Adams	EG&G Services, Bldg. 2291	760-725-4923	adamscw@1fssg.usmc.mil
I-MEF	Mr. Dave Santos	EG&G Services, Bldg. 2291	760-725-4065	santosda@1fssg.usmc.mil
II-MEF	Mr. Jeff McCracken	FC-286, Rm 131, 2d Maint Bn, MOS, 2d FSSG	910-451-1902 DSN 751-1902	mccrackenjl@2fssg.usmc.mil
II-MEF	Mr. Steve Davis	FC-286, Rm 131, 2d Maint Bn, MOS, 2d FSSG	910-451-1902 DSN 751-1902	davisps@2fssg.usmc.mil
III-MEF	Mr. Joe White	PSC 567 Box 6714 FPO AP 96384-6714	DSN 637-5023	whitejl@3fssg.usmc.mil
III-MEF	Mr. Paul Zackeroff	PSC 567 Box 6714 FPO AP 96384-6714	DSN 637-5023	zackeroffp@3fssg.usmc.mil
Sr. Warranty Coordinator	Mr. Eric Balgoyen	16 Center Street, Stafford, VA 22555	540-288-5932	Eric.Balgoyen@baesystems.com

l. Environmental, Safety, and Health (ESH). The WQAS-P is a Commercial Item, which conforms to all federal environmental, Safety, and National Fire Protection Agency (NFPA) Standard.

m. Plan of Action & Milestone (POA&M). There are no outstanding acquisition logistics initiatives that will impact fielding.

5. Actions Required to Place Equipment in Service

a. Gaining Commands

(1) Notify CG, MARCORSYSCOM (GTES-ES) and COMMARCORLOGBASES (583-1) when new equipment is received.

(2) Receive equipment and place the WQAS-P, NSN 6630-01-477-2395 on administrative deadline until MFT arrival.

(3) Account for the new assets per MCO P4400.150E and MCO P4400.82F.

(4) Establish a single POC with authority to resolve any problems encountered during the fielding process. Provide personnel, facilities, and administrative support to assist the MFT during the operation and maintenance familiarization training.

(5) Ensure that MOS 1171, Hygiene Equipment Operator personnel are available for the operation and maintenance familiarization training to be conducted by the MFT.

(6) Complete the Gaining Unit Fielding Evaluation Report per MCO 4105.4 and TM 4420-15/1 and submit to the WQAS-P Project Officer.

(7) Materiel Defects Reporting. Submit all fit, form, or function deficiencies in accordance with standard Product Quality Deficiency Reporting (PQDR) procedures contained in TM 4700-15/1 and MCO 4855.10 via the Product Data Reporting and Evaluation Program (PDREP) at http://www.nslcptsmh.navsea.navy.mil/pdrep/pdrep.htm. Disposition for the failed item will be furnished to the user based on the PQDR. If web access is not available, PQDRs should be submitted to the PQDR Screening Point via e-mail attachment to mailto:mbmatcompqdrs@logcom.usmc.mil. PQDR form is available at website: http://www.ala.usmc.mil/pqdr/default.asp. Submit Supply Discrepancy Reports SDR), SF 364, per UM-4400-124 and SECNAVINST 4355.18 (reporting of Item and Packaging Discrepancies) on shortages, overages and packaging and preservation discrepancies. Any damage due to improper packaging will be submitted via SDR procedures. Damage due to shipping discrepancies will be submitted as a Transportation Discrepancy Report, SF361. Damage caused by other than shipping and packaging will be reported on PQDR.

(8) Disposal of Existing Equipment. The receiving units will take proper disposal actions per MCO P4400.82F and UM 4400-124 for disposal of the existing WQAS-P, NSN 6630-01-365-5588.

(9) Obtaining Supporting Consumables. The gaining units will budget for and requisition supporting consumables using procedures that are in place for the replaced item.

(10) Controlled Item Reporting. The WQAS-P is not classified as a controlled item.

(11) Marine Corps Ground Equipment Resource Reporting (MCGERR). The WQAS-P is not Marine Corps Bulletin (MCBUL) 3000 reportable.

b. Marine Corps Logistics Command, Albany

(1) Register the Marine Corps as a user of the Army's NSN.

(2) Ensure that the current ULSS, and TM are posted on the MCLBA document repository.

(3) Ship receiving units their T/E authorized allowances of WQAS-Ps.

(4) Ensure there are no T/E deficiencies.

c. MARCORSYSCOM

(1) Ensure Item Data File information is updated in the Logistics Management Information System prior to fielding and that the information is kept current.

(2) Provide a MFT to conduct joint inventory, and all other actions required to introduce the WQAS-P to the operational forces.

(3) Project Officer provides control, coordination, and oversight of the entire fielding process.

(4) Conduct New Equipment Training for each gaining unit.

(5) Coordinate with the gaining commands regarding the time, administrative support, facilities, and personnel required for the fielding effort.

(6) Maintain life cycle management of the system per MCO 4105.4 and TM 4420-15/1.

d. Designated SW Support Activity. N/A

APPENDIX A

ALLOWANCES AND DELIVERY SCHEDULES

WATER QUALITY ANALYSIS SET, PURIFICATION (WQAS-P)

Allowances for the WQAS-P will remain as currently listed in the Equipment Allowance File.

TE NO.	UNIT TITLE	UNIT QTY	MULTI	TOTAL	FY04 ALLOWANCE BY QTR 1	2	3	4
7014	MCLBA	2	**1**	2			2	
7540	MCENGRSCOL TRNG CMD, CAMP LEJEUNE NC	4	**1**	4			4	
B3341	LDGS PTCO, CSSG-3 (HI)	1	**1**	1			1	
N1312	CMDENGSUPT ENG SP CO, CMBAT 1ST MAR DIV	1	**1**	1			1	
N1322	CMDENGSUPT ENG SP CO, CMBAT 2D MAR DIV	1	**1**	1			1	
N1336	CMBT ENGR CO, COMBAT ALSTBN, 3RD MARDIV	1	**1**	1			1	
N1342	CMDENGSUPT ENG SP CO, CMBAT 4TH MAR DIV	1	**1**	1			1	
N3152	ENGRSPT CO, ENGR SPT BN, 1ST FSSG	3	**1**	3			3	
N3252	ENGRSPT CO, ENGR SPT BN, 2D FSSG	3	**1**	3			3	
N3352	ENGRSPT CO, ENGR SPT BN, 3D FSSG	3	**1**	3			3	
N3452	ENGRSPT CO, ENGR SPT BN, 4TH FSSG	3	**1**	3			3	
N8702	MAR WING SPT SQD (FW) MWSG, 1ST MAW	2	**1**	2			2	
N8702	MAR WING SPT SQD (FW) MWSG, 3D MAW	2	**2**	4			4	
N8703	MAR WING SPT SQD (RW) MWSG 1ST MAW	2	**1**	2			2	
N8703	MAR WING SPT SQD (RW) MWSG, 3D MAW	2	**2**	4			4	
048702	MAR WING SPT SQD (FW), MWSG, 4TH MAW	2	**2**	4			4	
048703	MAR WING SPT SQD (RW), MWSG, 4TH MAW	2	**1**	2			2	
028702	MAR WING SPT SQD (FW), MWSG, 2D MAW	2	**2**	4			4	
028703	MAR WING SPT SQD (RW), MWSG, 2D MAW	2	**2**	4			4	
	TOTAL			**49**			**49**	